



Missouri
Department of
Natural Resources

KCP&L Greater Missouri Operations Company
Power Plant Name: Greenwood
Electric Generation and Emissions in 2011

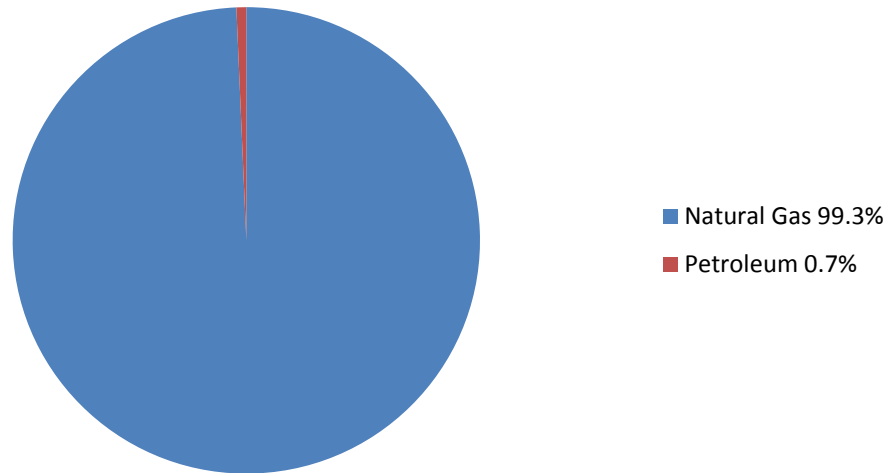
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal						
Natural Gas	287,837	99.0%	99.0%	12,514	99.3%	99.3%
Petroleum	2,817	1.0%	1.0%	85	0.7%	0.7%
Nuclear						
Other						
Non-renewable total	290,654	100.0%	100.0%	12,599	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	290,654		100.0%	12,599		100.0%

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	287,837
Distillate Fuel Oil	Barrels	489



Net Generation by Fuel Type, 2011 for Greenwood





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Power Plant Nameplate information for Greenwood

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Greenwood</i>		<i>All Operating Generators</i>			<i>976.0</i>
Greenwood	Jackson	1	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	244.0
Greenwood	Jackson	2	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	244.0
Greenwood	Jackson	3	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	244.0
Greenwood	Jackson	4	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	244.0



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Emissions from Electricity Generated in 2011: Greenwood

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Greenwood	137,288	68,200	1,306	134

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Greenwood	0	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Greenwood power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Greenwood power plant

Plant	Control Equipment
	No FGP Controls Installed



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>